

**Experiment Number:** 20307 - 03

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

**CAS Number:** 54464-57-2

**Date Report Requested:** 03/30/2016

**Time Report Requested:** 14:54:57

**First Dose M/F:** 12/12/06 / 12/13/06

**Lab:** MBA

F1\_Rev1 RD 0% Vehicle (without High Dose)

**NTP Study Number:** C20307

**Lock Date:** 12/23/2009

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include 002 vehicle

Include 003 6.25%

Include 004 12.5%

Include 005 25%

Include 006 50%

Include 009 vehicle

Include 010 6.25%

Include 011 12.5%

Include 012 25%

Include 013 50%

**Study Gender:** Both

**TDMSE Version:** 3.0.2.3\_002

**PWG Approval Date:** NONE

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**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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**SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF ETHANONE, 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHALENYL)- (ISO-E SUPER®; OTNE)**

**MALE RATS**

**Organ**

Kidney  
Skin, Site of Application

**Morphology**

Nephropathy  
Hyperkeratosis  
Hyperplasia

**FEMALE RATS**

**Organ**

Kidney  
Liver  
Skin, Site of Application

**Morphology**

Inflammation Chronic  
Inflammation Chronic  
Hyperkeratosis  
Hyperplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Harderian Gland Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Heart</b>					
<b>Cardiomyopathy</b>					
<b>LESION RATES</b>					
<b>OVERALL (a)</b>	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
<b>POLY-3 RATE (b)</b>	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
<b>POLY-3 PERCENT (g)</b>	10%	0%	0%	0%	0%
<b>TERMINAL (d)</b>	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
<b>FIRST INCIDENCE</b>	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
<b>POLY 3</b>	(e)	(e)	(e)	(e)	(e)
<b>POLY 1.5</b>	(e)	(e)	(e)	(e)	(e)
<b>POLY 6</b>	(e)	(e)	(e)	(e)	(e)
<b>COCH-ARM / FISHERS</b>	P=1.000N	(e)	(e)	(e)	(e)
<b>MAX-ISO-POLY-3</b>	(e)	(e)	(e)	(e)	(e)

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**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney Mineralization</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney Nephropathy</b>					
<b>LESION RATES</b>					
OVERALL (a)	8/10 (80%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	8/10.00	9/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	80%	90%	100%	100%	100%
TERMINAL (d)	8/10 (80%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.102	P=0.500	P=0.227	P=0.227	P=0.227
POLY 1.5	P=0.102	P=0.500	P=0.227	P=0.227	P=0.227
POLY 6	P=0.102	P=0.500	P=0.227	P=0.227	P=0.227
COCH-ARM / FISHERS	P=0.103	P=0.500	P=0.237	P=0.237	P=0.237
MAX-ISO-POLY-3	P=0.029*	P=0.274	P=0.066	P=0.066	P=0.066

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**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney: Pelvis</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)



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Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney: Renal Tubule Casts</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	1/10.00	1/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	10%	10%	0%	10%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	1/10 (10%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	92 (T)	92 (T)	---	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.500	P=0.500	P=0.500	(e)	P=0.500
POLY 1.5	P=0.500	P=0.500	P=0.500	(e)	P=0.500
POLY 6	P=0.500	P=0.500	P=0.500	(e)	P=0.500
COCH-ARM / FISHERS	P=0.500	P=0.500	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.180	P=0.158	P=0.158	(e)	P=0.158

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**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Liver</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	5/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	50%	0%	0%	0%	0%
TERMINAL (d)	5/10 (50%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

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Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung Mineralization</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

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**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung: Interstitium Inflammation Focal</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

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Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Lymph Node, Mesenteric Infiltration Cellular Histiocyte</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Lymph Node: Iliac Hyperplasia Diffuse</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/0.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Pancreas: Acinus Atrophy</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)



Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.500N	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.500N	P=0.500	(e)	(e)	(e)
POLY 6	P=0.500N	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.500N	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214N	P=0.158	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin Inflammation</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	10%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	92 (T)	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.500N	P=0.500	(e)	(e)	(e)
POLY 1.5	P=0.500N	P=0.500	(e)	(e)	(e)
POLY 6	P=0.500N	P=0.500	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.500N	P=0.500	(e)	(e)	(e)
MAX-ISO-POLY-3	P=0.214N	P=0.158	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin, Site of Application</b>					
Hyperkeratosis					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	1/10.00	3/10.00	4/10.00	5/10.00
POLY-3 PERCENT (g)	0%	10%	30%	40%	50%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	5/10 (50%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.004**	P=0.500	P=0.095	P=0.033*	P=0.008**
POLY 1.5	P=0.004**	P=0.500	P=0.095	P=0.033*	P=0.008**
POLY 6	P=0.004**	P=0.500	P=0.095	P=0.033*	P=0.008**
COCH-ARM / FISHERS	P=0.006**	P=0.500	P=0.105	P=0.043*	P=0.016*
MAX-ISO-POLY-3	P=0.004**	P=0.158	P=0.025*	P=0.007**	P<0.001**

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin, Site of Application</b>					
Hyperplasia					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	2/10 (20%)	4/10 (40%)	5/10 (50%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	2/10.00	4/10.00	5/10.00	8/10.00
POLY-3 PERCENT (g)	0%	20%	40%	50%	80%
TERMINAL (d)	0/10 (0%)	2/10 (20%)	4/10 (40%)	5/10 (50%)	8/10 (80%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P<0.001**	P=0.227	P=0.033*	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	P=0.227	P=0.033*	P=0.008**	P<0.001**
POLY 6	P<0.001**	P=0.227	P=0.033*	P=0.008**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.237	P=0.043*	P=0.016*	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.066	P=0.007**	P<0.001**	P<0.001**

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Clitoral Gland Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Harderian Gland Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Heart</b>					
<b>Cardiomyopathy</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/10.00	0/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	20%	0%	0%	10%	0%
TERMINAL (d)	2/10 (20%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.262N	P=0.227N	P=0.227N	P=0.500N	P=0.227N
POLY 1.5	P=0.262N	P=0.227N	P=0.227N	P=0.500N	P=0.227N
POLY 6	P=0.262N	P=0.227N	P=0.227N	P=0.500N	P=0.227N
COCH-ARM / FISHERS	P=0.264N	P=0.237N	P=0.237N	P=0.500N	P=0.237N
MAX-ISO-POLY-3	P=0.029N*	P=0.066N	P=0.066N	P=0.274N	P=0.066N



Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney Mineralization</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	20%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	92 (T)	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.584N	P=0.500N	P=0.500N	P=0.500	P=0.500N
POLY 1.5	P=0.584N	P=0.500N	P=0.500N	P=0.500	P=0.500N
POLY 6	P=0.584N	P=0.500N	P=0.500N	P=0.500	P=0.500N
COCH-ARM / FISHERS	P=0.583N	P=0.500N	P=0.500N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.172N	P=0.158N	P=0.158N	P=0.274	P=0.158N

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney Nephropathy</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.362N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 1.5	P=0.362N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
POLY 6	P=0.362N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
COCH-ARM / FISHERS	P=0.360N	P=0.500N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.056N	P=0.158N	P=0.158N	P=0.158N	P=0.158N

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney: Pelvis Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P=0.144	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.144	(e)	(e)	(e)	P=0.500
POLY 6	P=0.144	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.142	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.056	(e)	(e)	(e)	P=0.158

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Kidney: Renal Tubule Casts</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Liver</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
<b>OVERALL (a)</b>	5/10 (50%)	7/10 (70%)	9/10 (90%)	5/10 (50%)	5/10 (50%)
<b>POLY-3 RATE (b)</b>	5/10.00	7/10.00	9/10.00	5/10.00	5/10.00
<b>POLY-3 PERCENT (g)</b>	50%	70%	90%	50%	50%
<b>TERMINAL (d)</b>	5/10 (50%)	7/10 (70%)	9/10 (90%)	5/10 (50%)	5/10 (50%)
<b>FIRST INCIDENCE</b>	92 (T)	92 (T)	92 (T)	92 (T)	92 (T)

**STATISTICAL TESTS**

<b>POLY 3</b>	P=0.267N	P=0.329	P=0.061	P=0.664	P=0.664
<b>POLY 1.5</b>	P=0.267N	P=0.329	P=0.061	P=0.664	P=0.664
<b>POLY 6</b>	P=0.267N	P=0.329	P=0.061	P=0.664	P=0.664
<b>COCH-ARM / FISHERS</b>	P=0.268N	P=0.325	P=0.070	P=0.672N	P=0.672N
<b>MAX-ISO-POLY-3</b>	P=0.177N	P=0.188	P=0.020*	P=1.000	P=1.000

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung</b>					
<b>Inflammation Chronic</b>					
<b>LESION RATES</b>					
OVERALL (a)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	3/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	30%	0%	0%	0%	0%
TERMINAL (d)	3/10 (30%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung Mineralization</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Lung: Interstitium Inflammation Focal</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)



Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Lymph Node, Mesenteric Infiltration Cellular Histiocyte</b>					
<b>LESION RATES</b>					
OVERALL (a)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	6/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	60%	0%	0%	0%	0%
TERMINAL (d)	6/10 (60%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=1.000N	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Lymph Node: Iliac Hyperplasia Diffuse</b>					
<b>LESION RATES</b>					
OVERALL (a)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	1/1.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	100%	0%	0%	0%	0%
TERMINAL (d)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	92 (T)	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(e)	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Pancreas: Acinus Atrophy</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin</b>					
<b>Hyperplasia</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin Inflammation</b>					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---
<b>STATISTICAL TESTS</b>					
POLY 3	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin, Site of Application</b>					
Hyperkeratosis					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	4/10.00	5/10.00	7/10.00
POLY-3 PERCENT (g)	0%	0%	40%	50%	70%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	4/10 (40%)	5/10 (50%)	7/10 (70%)
FIRST INCIDENCE	---	---	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P<0.001**	(e)	P=0.033*	P=0.008**	P<0.001**
POLY 1.5	P<0.001**	(e)	P=0.033*	P=0.008**	P<0.001**
POLY 6	P<0.001**	(e)	P=0.033*	P=0.008**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	P=0.043*	P=0.016*	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	P=0.007**	P<0.001**	P<0.001**

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RATS(F344/N Tac)  
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females				
	vehicle	6.25%	12.5%	25%	50%
<b>Skin, Site of Application</b>					
Hyperplasia					
<b>LESION RATES</b>					
OVERALL (a)	0/10 (0%)	1/10 (10%)	5/10 (50%)	7/10 (70%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	1/10.00	5/10.00	7/10.00	7/10.00
POLY-3 PERCENT (g)	0%	10%	50%	70%	70%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	5/10 (50%)	7/10 (70%)	7/10 (70%)
FIRST INCIDENCE	---	92 (T)	92 (T)	92 (T)	92 (T)
<b>STATISTICAL TESTS</b>					
POLY 3	P<0.001**	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P=0.500	P=0.008**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P=0.500	P=0.008**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500	P=0.016*	P=0.002**	P=0.002**
MAX-ISO-POLY-3	P<0.001**	P=0.158	P<0.001**	P<0.001**	P<0.001**

Experiment Number: 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS**

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super®; OTNE)

CAS Number: 54464-57-2

Date Report Requested: 03/30/2016

Time Report Requested: 14:54:57

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
  - (b) Number of tumor-bearing animals/Poly-3 number
  - (d) Observed incidence at terminal kill.
  - (e) Value of statistic cannot be computed.
  - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
  - (g) Poly-3 adjusted lifetime tumor incidence.
  - (n) No statistics are calculated if all dose groups have fewer than two tumors.
  - (I) Interim sacrifice
  - (T) Terminal sacrifice
  - # Tumor rates based on numbers of animals necropsied.
  - \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
  - \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
  - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*